```
YYY
YYY
YYY
YYY
YYY
                      777
                                                   $$$$$$$$$$
$$$$$$$$$$
$$$$$$$$$$
```

Ps

YZ

ZS

ZS

ZS

78

ZS

28

ZS

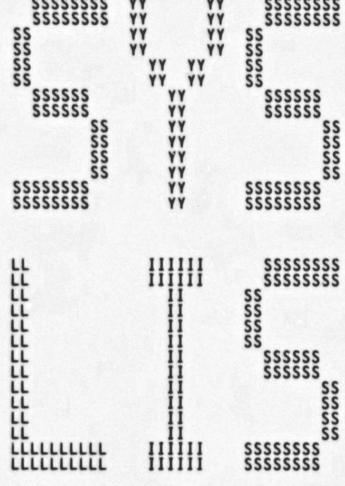
ZS

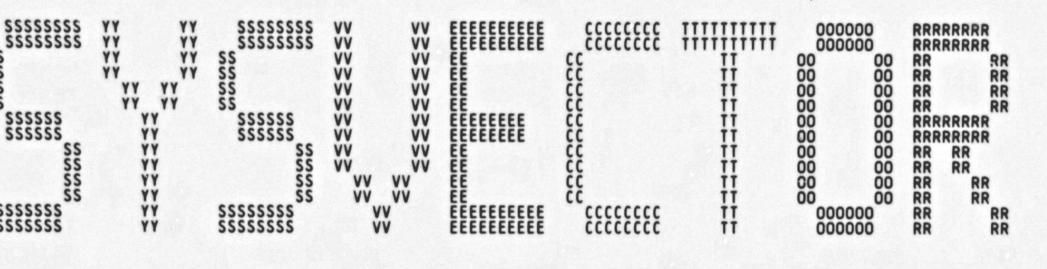
ZS

ZS

ZS

ZS





....

::::

SYS\$VECTOR - SYSTEM SERVICE VECTOR DEFINITIONS 2 16-SEP-1984 01:28:28 VAX/VMS Macro V04-00 Page 0 (1) 487 Macros for Loadable Services (1) 1112 SYSTEM SERVICE VECTOR DEFINITION (1) 1734 REGION 2 OF SYS. SERV. VECTOR DEFINITIONS

SYS VO4

16-SEP-1984 01:28:28 VAX/VMS Macro V04-00 5-MAR-1980 00:50:56 [SYS.SRC]LBSW.MAR;1

Page 1

SYS VO4

00000001

0000

```
:GENERATE LIBRARY FORM OF SERVICE VECTOR

.NLIST CND
.TITLE SYS$VECTOR - SYSTEM SERVICE VECTOR DEFINITIONS
.IDENT 'V04-000'
```

COPYRIGHT (c) 1978, 1980, 1982, 1984 BY DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS. ALL RIGHTS RESERVED.

THIS SOFTWARE IS FURNISHED UNDER A LICENSE AND MAY BE USED AND COPIED ONLY IN ACCORDANCE WITH THE TERMS OF SUCH LICENSE AND WITH THE INCLUSION OF THE ABOVE COPYRIGHT NOTICE. THIS SOFTWARE OR ANY OTHER COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY OTHER PERSON. NO TITLE TO AND OWNERSHIP OF THE SOFTWARE IS HEREBY TRANSFERRED.

THE INFORMATION IN THIS SOFTWARE IS SUBJECT TO CHANGE WITHOUT NOTICE AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY DIGITAL EQUIPMENT CORPORATION.

DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.

D. N. CUTLER 22-JUN-76

MODIFIED BY:

V03-041 LJK0287 Lawrence J. Kenah 27-Jun-1984 Add R5 to entry mask for \$CANEXH system service.

V03-040 LMP0239 L. Mark Pilant, 23-Apr-1984 9:21 Change \$CHKPRO from an exec mode service to a kernel mode service. This was made necessary by the \$CHKPRO (internal entry point) interface change.

V03-039 MMD0250 Meg Dumont, 27-Feb-1984 17:49
Add support for \$MTACCESS installation specific accessibility routine

V03-038 DASO001 David Solomon 20-Feb-1984
Implement new design for RMS echo SYS\$INPUT to SYS\$OUTPUT
(vs V03-019). Echo is now performed by a caller's mode AST
routine declared in RMS\RM\$EXRMS. Change INCB/DECB of FAB/RAB
busy bit to BISB/BICB, now that we have room.

V03-037 SSA0004 Stan Amway 28-Dec-1983 For \$SETPFM, changed number of parameters from 1 to 4 and changed entry mask to save R2-R11.

V03-036 TMK0002 Todd M. Katz 19-Nov-1983
The entry point for \$ASCTOID can no longer be reached as a

545 VO4

```
branch destination from the executive mode dispatcher. A temporary entry point (EXE$ASCTOID) has been placed within this module, and a JMP is made from it to the real system service entry point (EXE$$ASCTOID).
Also, change the entry mask for SYS$TRNLOG, so that R8 is
                                now saved.
                                TMK0001 Todd M. Katz 22-Oct-1983
The entry points for $FINISH_RDB and $IDTOASC can no longer be reached as branch destinations from the executive mode dispatcher. Temporary entry points (EXE$FINISH_RDB and EXE$IDTOASC) have been placed within this module, and from each a JMP is made to the real system service entry points (EXE$$FINISH_RDB and EXE$$IDTOASC).
                   V03-035 TMK0001
                   V03-034 PRB0254
                                                           Paul Beck
                                                                                      15-Sep-1983 14:49

    Correct the way synchronous CJF services are defined.
    Define loadable RUF services.

                                WMC0029 Wayne Cardoza 31-Aug-1983
Loadable services should not be unconditionally inhibited.
Add an alternate CHMx argument to LDBSRV.
                   V03-033 WMC0029
                   V03-032 DWT0125
                                                           David W. Thiel
                                                                                                   22-Aug-1983
                                 Remove CHECKARGLIST and calls to same.
                   V03-031 MKL0167
                                                           Mary Kay Lyons
                                                                                                   19-Aug-1983
101
                                 Generate loadable service vector for CJF$GETCJI.
102
103
                   V03-030 KBT0578
                                                           Keith B. Thompson
                                                                                                   8-Aug-1983
104
                                Add parameter to $FILESCAN
                                RAS0178 Ron Schaefer 29-Jul-1983 Add code to detect the AST/non-AST RMS FAB/RAB race condition where an RMS operation is initiated while the user FAB/RAB is still waiting for completion of
                   V03-029 RAS0178
109
                                previous operation.
                   V03-028 WMC0028
                                                                                                   29-Jun-1983
                                                           Wayne Cardoza
                                 Add CJF services.
                   V03-027 WMC0027
                                                                                                   23-Jun-1983
                                                           Wayne Cardoza
                                Make old logical name services 'all mode'
                                Changes to image activator vectors.
                   V03-026 JWH0222
                                                           Jeffrey W. Horn
                                Add LDBSRV macro for vector definitions of loadable services.
                   V03-025 DMW4035
                                                           DMWalp
                                                                                                   26-May-1983
                                 Intergate new logical name structures.
                   V03-024 LMP0109
                                LMP0109 L. Mark Pilant, 28-Apr-1983 15:53
Make $CHKPRO an EXEC mode system service to allow examination
                                of various system data structures.
```

SYS VO4

- V03-024 RAS0147 Ron Schaefer 28-APR-1983 Add \$fILESCAN. Add R8 and R9 to \$SETPRN register mask.
- V03-023 JLV0244 Jake VanNoy 27-APR-1983 Add \$BRKTHRUW. Change \$BRDCST to all mode service. \$BRDCST now uses \$BRKTHRU to do real work.
- V03-022 LMP0099 L. Mark Pilant, 13-Apr-1983 19:15 Add the \$CHKPRO system service.
- V03-021 ACG0319 Andrew C. Goldstein, 21-Mar-1983 13:51 Add \$GRANTID and \$REVOKID services
- V03-020 JLV0234 Jake VanNoy 1-MAR-1983 Add \$BRKTHRU service.
- V03-019 RAS0120 Ron Schaefer 25-Feb-1983
 Add support to echo SYS\$INPUT to SYS\$OUTPUT.
 This involves examining the return code from RMS for \$GET;
 if the special status RMS\$ ECHO (not returned to users)
 is found, then create a RAB on the caller's stack and
 execute a \$PUT operation to echo the line.
 A certain amount of RMS synchronization code was
 shuffled around in order to make room for this.
- V03-018 ACG0317 Andrew C. Goldstein, 22-Feb-1983 15:16 Fix off-by-one in kernel arg vector
- V03-017 RSH0004 R. Scott Hanna 10-feb-1983 Added \$ASCTOID, \$FINISH_RDB, and \$IDTOASC to system service list
- V03-016 RNG0016 Rod N. Gamache 1-Feb-1983 Added \$GETLKI to system service list
- V03-015 WMC0015 Wayne Cardoza 12-Jan-1983
 Put back accidentally deleted space holder for RMS synchronization.
- V03-014 DMW4023 DMWalp 7-Jan-1983 Added \$CRELNT, \$CRELNM, \$DELLNM and \$TRNLNM
- V03-013 KDM0033 Kathleen D. Morse 13-Dec-1982 Correct usage of an interlocked instruction to flush the hardware cache queue.
- Insert routine header comments for INHEXCP, CHECKARGLIST, and EXESCMODKRNLX (MPSSCMODKRNLX). Move things around so that EXESCMODKRNL (MPSSCMODKRNL) header comments are near EXESCMODRKNL (MPSSCMODKRNL) and ASTEXIT comments are near ASTEXIT. Make basic kernal-mode .PSECT definition for YSCMODK or MPSCMOD1 immediately after executive mode code so that new code can be inserted in a way that preserves routine headers, conditional assembly, and .PSECT definitions. Backout ROW145, and in its place, correct conditional assembly of BGEQU 10S after ACCVID_RET so that it is assembled only for MPCMOD and so that it is located before ACCVID_RET. Change PCB address lookup at KERDSP in MPCMOD to use CTLSGL_PCB so that it works

16-SEP-1984 01:28:28 VAX/VMS Macro V04-00 5-SEP-1984 03:40:37 [SYS.SRC]CMODSSDSP.MAR;1

Page

(1)

SYS VO4

ROW0145 Ralph O. Weber 29-NOV-1982
Move EXESEXCPTN (and MPSSEXCPTN) to before ASTEXIT (or MPSSASTEXIT) in an attempt to make branch destinations in EXESCMODKRNL reach. V03-011 ROW0145

correctly regardless of which processor executes it.

KDM0030 Kathleen D. Morse 18-Nov-1982 Add logic to MPCMOD that allows the primary to execute secondary-specific code, without turning into a secondary. V03-010 KDM0030

MLJ0099 Martin L. Jack, 20-Oct-1982 19:42 Complete V03-002 by correcting mode and argument count of \$SNDJBC and removing temporary stubs. V03-009 MLJ0099

RIH0001 Richard I. Hustvedt 1-Jun-1982 Correct handling of AST queue by secondary processor to avoid losing some AST notifications by incorrectly computing PHD\$B_ASTLVL. V03-008 RIH0001

V03-007 KDM0018 Kathleen D. Morse 30-Sep-1982 Add MPSWITCH logic to create a kernel system service dispatcher for the secondary processor of an 11/782.

Steven T. Jeffreys V03-006 STJ3028 26-Sep-1982 Added SERAPAT system service vector.

DWT0058 David Thiel 11-Aug Eliminate use of R2 while waiting for service V03-005 DWT0058 11-Aug-1982 completion.

JWH0001 Jeffrey W. Horn 26-Jul-1982 Add new RMS service, RMSRUHNDLR, an un-documented service V03-004 JWH0001 which acts as the Recovery Unit handler for RMS.

PHL0102 Peter H. Lipman 16-Jul-1982 Fix new SYNCH logic to always return SS\$_NORMAL, not access IGSB if error from service, and return error status from \$SETEF if event flag cluster went away V03-003 PHL0102

V03-002 PHL0101 17-Jun-1982 Peter H. Lipman Add \$SYNCH system service and fix \$QIOW and \$ENQW to use the new code for waiting for the combination of EFN and IOSB

Improve readability of conditionals.

Add \$GETDVIW, \$GETJPIW, \$GETSYIW, \$SNDJBC, \$SNDJBCW, and \$UPDSECW. All the waiting versions use common code.

CHANGE MODE SYSTEM SERVICE DISPATCHER MACRO LIBRARY CALLS

SACBDEF

:DEFINE AST CONTROL BLOCK OFFSETS

^M<REGS>

SRVNAME' MASK = "M<REGS> MPSWITCH

WORD

. IFTF

```
- SYSTEM SERVICE VECTOR DEFINITIONS
                                                       16-SEP-1984 01:28:28 VAX/VMS Macro V04-00 5-SEP-1984 03:40:37 [SYS.SRC]CMODSSDSP.MAR;1
                                                                                                                                    (1)
                                SRY MODE
SRY MODE
SRY MODE
.ENDC
.ENDC;
                                           NOSYNC
                                                      SRVNAME, NARG, MASK
                                                      SRVNAME, NARG, MASK, NOSYNC
                                           :MPSWITCH
                                 BLKL
ENDC
IFF
                                 SRV'MODE
                                                      SRVNAME, NARG, MASK
                                 .ENDC
                                           GSYSSRY
                                 GCOMPSRVB - GENERATE COMPOSITE SYSTEM SERVICE ENTRY VECTOR BEGIN
                                GCOMPSRVB SRVNAME, REGISTER_MASK[, PREFIX]
                                 WHERE:
                                           SRVNAME - SERVICE NAME LESS ANY PREFIX (SYS$, EXE$)
REGISTER_MASK - SYMBOLIC REGISTER MASK, E.G QIO_MASK
PREFIX - IF SUPPLIED, THE PREFIX FOR THE SERVICE NAME.
IF OMITTED, "SYS$" IS ASSUMED.
                                 .MACRO
                                           GCOMPSRVB, SRVNAME, REGMSK, PREFIX=SYS$ NDF, MPSWITCH
                                 · IF
                                           NDF RMSSWITCH
DF, LIBSWITCH
                                 .PSECT $$$0000,QUAD
                                 .PSECT $$$000,QUAD
                                 .ENDC
                                 . ALIGN
                                           QUAD
                                 . IF DF
                                           LIBSWITCH
                                  IIF
                                           NOT_BLANK, <SRVNAME>,-
                      'PREFIX'SRVNAME::
                                 .IFF
.ENABL LSB
                      COMPSTRT=.
                                           NOT_BLANK, <REGMSK>,-
                                 . WORD
                                           <REGMSK>
                                 .ENDC
                                 .ENDC
                                 ENDC
                                            :MPSWITCH
                                 .ENDM
                                           GCOMPSRVB
                                 GCOMPSRVE - GENERATE COMPOSITE SYSTEM SERVICE ENTRY VECTOR END
                                GCOMPSRVE
                                                      QUADWORDS
                                 WHERE:
                                           QUADWORDS - NUMBER OF QUADWORDS TO RESERVE FOR VECTOR
```

SYS!

```
GCOMPSRVE, QUADS
.MACRO
                                  NDF, RMSSWITCH
DF, LIBSWITCH
QUADS
                        .BLKQ
             COMPSIZE = .- COMPSTRT
. IF GE, QUADS*8-COMPSIZE
.BLKB QUADS*8-COMPSIZE
                        .BLKB
.IFF
.ERROR
.ENDC
                                            ; VECTOR EXCEEDS ALLOCATED SIZE ;
                        .DSABL
                                  LSB
                        .ENDC
                        .ENDC
                                   : MPSWITCH
                        . ENDM
                                  GCOMPSRVE
                        SRVK - GENERATE ENTRY FOR KERNEL MODE SERVICE
                        SRVK
                                  SRVNAME, NARG, MASK
             .MACRO SRVK, SRVNAME, NARG, MASK
.IF NDF, RMSSWITCH
.IF DF, MPSWITCH
CMK$C_'SRVNAME==KCASCTR
0000
0000
0000
                        . IFF
                                  :MPSWITCH DEFINED
             CMK$C_'SRVNAME=KCASCTR
#SRVNAME
                        CHMK
                        RET
                        .PSECT YSCMODKN, BYTE
                        .=KCASCTR
                        ASSUME NARG LE 127
                        .BYTE
                                  NARG
                        .PSECT YSCMODKX, BYTE
                        .=KCASCTR
                        .BYTE MASK
.PSECT YSCMODK, BYTE
                        .SIGNED_WORD EXES'SRVNAME-KCASE+2
                                  :MPSWITCH
                         IFTF
             SRVNAME=KCASCTR
             KCASCTR=KCASCTR+1
                                 ; MPSWITCH
                        .ENDC
                        .ENDC
                        .ENDM
                                 SRVK
                        SRVE - GENERATE ENTRY FOR EXECUTIVE MODE SERVICE
0000
0000
                        .MACRO SRVE, SRVNAME, NARG, MASK
.IF NDF, MPSWITCH
.IF NDF, RMSSWITCH
ÖÖÖÖ
             CMESC_'SRVNAME=ECASCTR
```

```
- SYSTEM SERVICE VECTOR DEFINITIONS
                                                  16-SEP-1984 01:28:28 VAX/VMS Macro V04-00 
5-SEP-1984 03:40:37 [SYS.SRC]CMODSSDSP.MAR;1
                                                                                                               Page
      0000
0000
0000
0000
0000
0000
0000
                             CHME
                                       #SRVNAME
                             RET
                             .PSECT YSCMODEN, BYTE .= ECASCTR
                             ASSUME NARG LE 127
                             .BYTE NARG
.PSECT YSCMODEX,BYTE
                             .=ECASCTR
.BYTE MASK
.PSECT Y$CMODE, BYTE
.SIGNED_WORD EXE$'SRVNAME-ECASE+2
     ENDC
                   SRVNAME=ECASCTR
                   ECASCTR=ECASCTR+1
                             .ENDC
                                       : MPSWITCH
                             .ENDM
                                      SRVE
                         MACROS FOR GENERATING RMS SYSTEM VECTORS
                             .MACRO RMSSRV SRVNAME NARG=1, REGS=<R2,R3,R4,R5,R6,R7,R8,R9,R10,R11>,-
                                                 MASK, NOSYNC=0
                             GSYSSRV SRVNAME, R, NARG, < REGS > , MASK, NOSYNC
                             .ENDM RMSSRV
                       SRVR - GENERATE ENTRY FOR RMS SERVICE (EXEC MODE)
                             .MACRO SRVR
                                                SRVNAME, NARG, MASK, NOSYNC
                                      NDF, MPSWITCH
NDF, RMSSWITCH
                   CMESC_'SRVNAME=RCASCTR
              CHME
                                      #SRVNAME
                             .IF EQ NOSYNC
.IIF GT <.+2-RMSSYNC>-127,-
                   RMSSYNC=RMSWBR
                                                                    RESET BRANCH DESTINATION
                   RMSWBR=.
                                       RMSSYNC
                             . IFF
                             RET
                             .ENDC
                             .PSECT
                                      Y$CMODEN, BYTE
                             .=RCASCTR
                             ASSUME NARG LE 127
                                      NARG
                                      YSCMODEX, BYTE
                             .=RCASCTR
                             .BYTE MASK
                             .PSECT $$$RMSVEC,BYTE,NOWRT
                             .SIGNED_WORD
                                                RMS$'SRVNAME-RCASE+2
                             .ENDC
                   SRVNAME=RCASCTR
                   RCASCTR=RCASCTR+1
.ENDC ;
.ENDM S
                                       : MPSWITCH
                                      SRVR
```

```
VAX/VMS Macro V04-00
[SYS.SRC]CMODSSDSP.MAR;1
                                                                                                                               Page
Macros for Loadable Services
                                  .SBTTL Macros for Loadable Services
                                 LDBSRV - Generate Loadable Service Vector
                                            PREFIX, SRVNAME, MODE, REGS, SYN_EFN, SYN_IOSB, ALT_CHMX
                                 LDBSRV
                                 Where:
                                                                  - Prefix for system service vector entry point name
- Service name less any prefix (SYS$,CJF$, etc.)
- Mode designator for service (K,E,ALL)
- Register save list
- Event flag argument number for $SYNCH
- IOSB argument number for $SYNCH
                                            PREFIX
                                            SRVNAME
                                            MODE
REGS
                                            SYN_EFN
SYN_IOSB
ALT_CHMX
                                                                     Use same CHMx number as this service
                                            LDBSRV, PREFIX, SRVNAME, MODE, REGS, SYN_EFN, SYN_IOSB, ALT_CHMX
                                 . IF NDF , RMSSWITCH
                                 . IF NDF , MPSWITCH
                                       .IF DF, LIBSWITCH .PSECT $$$0000, QUAD
                                             .ALIGN QUAD
                      PREFIX' 'SRVNAME:
                                             . IF BLANK SYN EFN
                                                  .BLKL
                                             . IFF
                                            .ENDC BLKL
                                             .PSECT
                                                       $$$000,QUAD
                                             .ALIGN
                                                       QUAD
                                                       ^M<REGS>
                                            . WORD
                                            SRVNAME' MASK = "M<REGS>
                                            LVEC_'MODE PREFIX, SRVNAME, SYN_EFN, SYN_IOSB, ALT_CHMX
                                       .ENDC
                                 ENDC
                                               MPSWITCH
                                 .ENDC
                                               RMSSWITCH
                                 . ENDM
                                            LDBSRV
                                 LVEC_K - Kernel Mode Loadable System Service Vector
                                 LVEC_K PREFIX, SERVICE, EFN, IOSB
                                 .MACRO LVEC_K, PREFIX, SERVICE, EFN, IOSB, ALT_CHMK
.IF BLANK ALT_CHMK
__CMK$C_'SERVICE = PREFIX'KCASCTR
                                      CMK$C_'SERVICE = ALT_CHMK
                                  .ENDC
                                 CHMK #SERVICE
                                 .IF NOT BLANK EFN
                                                       #EFN
                                      PUSHL
                                                       #IOSB
                                       JMP
                                                       a#EXE$LDB_SYNCH
```

- SYSTEM SERVICE VECTOR DEFINITIONS

```
- SYSTEM SERVICE VECTOR DEFINITIONS Macros for Loadable Services
                                                                               VAX/VMS Macro V04-00
[SYS.SRC]CMODSSDSP.MAR;1
                                                                                                                   Page
                                   RET
                             .ENDC
.IF BLANK ALT_CHMK
SERVICE = PREFIX'KCASCTR
PREFIX'KCASCTR = PREFIX'KCASCTR + 1
                              .ENDC
      ŎŎŎŎ
                              .ENDM LVEC_K
      ŎŎŎŎ
      0000
                              LVEC_E - Exec Mode Loadable System Service Vector
      ÖÖÖÖ
      0000
                              LVEC_E PREFIX, SERVICE, EFN, 10SB
      0000
      ÖÖÖÖ
                              .MACRO LVEC_E, PREFIX, SERVICE, EFN, IOSB, ALT_CHME
.IF BLANK ALT CHME
CMESC_'SERVICE = PREFIX'ECASCTR
      0000
      0000
      ŎŎŎŎ
      0000
      0000
                                   CMESC_'SERVICE = ALT_CHME
      0000
                               ENDC
      0000
                                        #SERVICE
                              CHME
      0000
                              . IF NOT_BLANK EFN
      PUSAL
                                                  #EFN
                                   PUSHL
                                                   #IOSB
                                   JMP
                                                   AMEXESLDB_SYNCH
                              . IFF
                                   RET
                              .ENDC
                              RET
                              .IF BLANK ALT_CHME
SERVICE = PREFIX'ECASCTR
                                   PREFIX'ECASCTR = PREFIX'ECASCTR + 1
                                   SERVICE = ALT_CHME
                              .END
                              .ENDM LVEC_E
                              LVEC_ALL - Mode of caller Loadable System Service Vector
                              LVEC_ALL PREFIX, SERVICE, EFN, 10SB
                              .MACRO LVEC_ALL, PREFIX, SERVICE, EFN, IOSB, ALT_CHMK
JMP @#EXES'SERVICE
                              . IF NOT_BLANK EFN
                             .ENDC
                                                  ; SYNCH NOT ALLOWED FOR ALL-MODE SERVICES
                              .ENDM
                                       LVEC_ALL
```

VO

COMMAND INTERPRETER DISPATCH VECTOR

THE FOLLOWING VECTOR IS INCLUDED IN THE SYSTEM VECTOR SPACE SO THAT DIRECT CALLS CAN BE MADE TO THE CURRENT COMMAND INTERPRETER WITHOUT HAVING TO KNOW THE ADDRESS OF ITS SERVICE ROUTINE.

1196 1197 1198 1199 .ALIGN QUAD SYSSCLI::

COMMAND INTERPRETER DISPATCH RESERVE SPACE

80000020

1194

.BLKQ

SY VO4

```
DEFINE REMAINING SERVICES
                                                                                                                                                                                                                                             GSYSSRV ADJSTK.K.3.-

(R2,R3,R4,R5,R6),-

EXC MASK

GSYSSRV ADJOSL K.2.-

(R2,R3,R4,R5)

GSYSSRV ALCONK.4.-

(R2,R3,R4,R5)

GSYSSRV ALCONK.4.-

(R2,R3,R4,R5,R6),R6,R7)

GSYSSRV ALLOC.K.4.-

GSYSSRV ALLOC.K.4.-

(R2,R3,R4,R5,R6)

GSYSSRV ASCETC.K.4.-

(R2,R3,R4,R5,R6)

GSYSSRV ASCETC.K.4.-

(R2,R3,R4,R5,R6)

GSYSSRV ASCITIM.ALL.3.-

(R2,R3,R4,R5,R6)

GSYSSRV ASSIGN K.4.-

(R2,R3,R4,R5,R6)

GSYSSRV ASSIGN K.4.-

(R2,R3,R4,R5,R6)

GSYSSRV BINTIM.ALL.2.-

GSYSSRV CANCEL.K.1.-

(R2,R3,R4,R5,R6,R7,R8)

GSYSSRV CANCEL.K.1.-

(R2,R3,R4,R5,R6,R7,R8)

GSYSSRV CANCEL.K.1.-

GSYSSRV CANCEL.K.1.-

(R2,R3,R4,R5,R6,R7,R8)

GSYSSRV CANCEL.K.1.-

(R2,R3,R4,R5)

GSYSSRV CANCEL.K.1.-

(R2,R3,R4,R5)

GSYSSRV CANCEL.K.1.-

(R2,R3,R4,R5)

GSYSSRV CANCEL.K.1.-

(R2,R3,R4,R5)

GSYSSRV CANCEL K.1.-

(R2,R3,R4,R5)

GSYSSRV CANCEL K.2.-

(R2,R3,R4,R5)

GSYSSRV CRMPSC,K.12.-

(R2,R3,R4,R5)

GSYSSRV CLAPAR,K.2.-

(R2,R3,R4,R5)

(R2,R3,R4,R5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     REGISTER R4
CHANGE MODE TO KERNEL
REGISTER R4
CLEAR EVENT FLAG
REGISTERS R2-R5. SEE WAITFR COMMENTS.
CONTRACT REGION
                                                                                                                                                                                                                                                                                                                                                                               <R4>
                                                                                                                                                                                                                                                             GSYSSRV CMKRNL,K,2,-
                                                                                                                                                                                                                                                                                                                                    GSYSSRV
                                                                                                                                                                                                                                                             GSYSSRV
                                                                                                                                                                                                                                                             GSYSSRV
                                                                                                                                                                                                                                                   CREATE LOGICAL NAME

CREATE LOGICAL NAME

CREATE LOGICAL NAME

CREATE MAILBOX

CREATE PROCESS

CREATE PROCESS

CREATE VIRTUAL ADDRESS

CREATE VIRTUAL 
00B0
 00D0
 00D0
 00D8
```

```
0148
0148
0150
                                                                                                               GSYSSRV EXPREG.K.4.-

(R2,R3,R4,R5,R6,R7,R8) REGISTERS R2-R8

GSYSSRV FAO.ALL.O.-

(R2,R3,R4,R5,R6,R7,R8,R9,R10,R11); REGISTERS R2-R11

(R2,R3,R4,R5,R6,R7,R8,R9,R10,R11); REGISTERS R2-R11

(R2,R3,R4,R5,R6,R7,R8,R9,R10,R11); REGISTERS R2-R11

(R2,R3,R4,R5) REGISTERS R2-R5

(R2,R3,R4,R5) REGISTERS R2-R5

(R2,R3,R4,R5) REGISTERS R2-R5

(R3,R4,R5) REGISTERS NONE

(R2,R3,R4,R5,R6,R7,R8,R9,R10,R11); REGISTERS R2-R11

(R3,R3,R4,R5,R6,R7,R8,R9,R10,R11); REGISTERS R2-R11
 0150
 0158
 0158
0160
0160
0168
0168
0170
0170
 0178
                                                                                                               GCOMPSRVB UPDSECW,-

COMPSRVE CUPDSEC MASK ! GETJPI_SYNCH_MASK>
                                                                                                                                                                                                                                                                                                                   NO REGISTERS
 0180
 0180
                                                                                                         GCOMPSRVE
GSYSSRV HIBER, K, O, -

(R2, R3, R4, R5)
GSYSSRV IMGACT, E, 8, -

(R2, R3, R4, R5, R6, R7, R8, R9, R10, R11); REGISTERS R2-R11
GSYSSRV LCKPAG, K, 3, -

(R2, R3, R4, R5, R6, R7, R8); REGISTERS R2-R8
GSYSSRV LKWSET, K, 3, -

(R2, R3, R4, R5, R6, R7, R8); REGISTERS R2-R8
GSYSSRV MGBLSC, K, 7, -

(R2, R3, R4, R5, R6, R7, R8); REGISTERS R2-R8
GSYSSRV MGBLSC, K, 7, -

(R2, R3, R4, R5, R6, R7, R8, R9, R10, R11); REGISTERS R2-R11
GSYSSRV PURGWS, K, 1, -

(R2, R3, R4, R5, R6, R7, R8); R2-R8
GSYSSRV NUMTIME, 2, -

(R2, R3, R4, R5, R6, R7, R8, R9, R10, R11); REGISTERS R2-R7
GSYSSRV SNDOPR, E, 2, -

(R2, R3, R4, R5, R6, R7, R8, R9, R10, R11); REGISTERS F
 0180
 0190
 01B0
 01B0
                                                                                                                                                                                                                                                                                                                                                                                                                 :REGISTERS R2-R11
```

Syn

SYS

Syn

SYS

Mad

SYS

PSE

PSE

SAE

Pha

In

Con

Syn Pas Syn Pse

Cro Ass

-\$2 TO

The

- SYSTEM SERVICE VECTOR DEFINITIONS
SYSTEM SERVICE VECTOR DEFINITION SYS\$VECTOR 16-SEP-1984 01:28:28 VAX/VMS Macro V04-00 5-SEP-1984 03:40:37 [SYS.SRCJCMODSSDSP.MAR;1 Page 1478:
1479: Set up the base for the RMS service codes. We leave a hole so that
1480: other exec mode system services can be defined later in this module.
1481: The hole is defined by the offset between ECASCTR and RCASCTR; it
1482: is checked with an ASSUME at the end of all service definitions.
1483:

**F

RMS SERVICES

R3 R8 R4

RMS SYNCHRONIZATION ROUTINE

THE FOLLOWING ROUTINE IS USED BY THE VARIOUS RMS SERVICES IN ORDER TO AWAIT I/O COMPLETION. THE ROUTINE IS IN THE VECTOR AREA IN ORDER TO WAIT AT THE CALLER'S MODE, THUS ALLOWING AST ACTIVITY FOR EITHER USER OR SUPERVISOR MODE, OR BOTH.

THE FAB/RAB IS CHECKED FOR A LEGAL BLOCK ID, I.E., A 1 OR 3, AND AN ERROR RETURNED IF INVALID. THE STRUCTURE IS NOT REPROBED.

NOTE THAT EACH RMS SERVICE VECTOR TERMINATES WITH A BRANCH TO THIS ROUTINE.

THIS ROUTINE ASSUMES THAT THE FOLLOWING REGISTERS HAVE BEEN SET BY THE EXITING RMS EXEC-LEVEL CODE WHENEVER A STALL IS REQUIRED:

EFN TO WAIT ON RAB/FAB ADDRESS TO WAIT ON (RMSWAIT BR ENTRY POINT ONLY, \$WAIT SERVICE) FLAG FOR WAIT TYPE (0 = SAME RAB, 1 = DIFFERENT RABS)

\$\$\$0000,QUAD *X320-<.-VECBASE> .PSECT .BLKB

THIS TAKES THE SPACE OF THE CODE WHEN GENERATING THE GLOBAL SYMBOLS

```
162234901233456789062345
166233333456789062345
16633333456789065555
1665555
                  DEFINE RMS SERVICES
                  HIGH USE RECORD OPERATIONS
                        RMSSRV DELETE
                                                        :DELETE A RECORD
                         RMSSRV
                                                        :FIND RECORD
                                                        RELEASE LOCK ON ALL RECORDS
GET A RECORD
PUT A RECORD
                         RMSSRV
                         RMSSRV
                         RMSSRV
                                                        READ A BLOCK
RELEASE LOCK ON NAMED RECORD
REWRITE EXISTING RECORD
                         RMSSRV
                         RMSSRV
                                   RELEASE
                                  UPDATE
                         RMSSRV
                                                        STALL FOR RECORD OPERATION COMPLETE
                         RMSSRV
                                   WAIT
03B0
                                   WRITE
                         RMSSRV
                  LOWER USAGE OPERATIONS
       1656
                        RMSSRV
RMSSRV
                                                        CLOSE FILE
                                   CLOSE
                                   CONNECT
       1658
                         RMSSRV
                                   CREATE
                                                        CREATE FILE
03D0
       1659
                                                        :DISCONNECT RAB
                        RMSSRV
                                   DISCONNECT
                                                       DISPLAY FILE INFORMATION

ERASE (DELETE) FILE

EXTEND FILE ALLOCATION

FINISH I/O ACTIVITY FOR STREAM

MODIFY FILE ATTRIBUTES

NEXT VOLUME
       1660
                        RMSSRV
                                   DISPLAY
       1661
                        RMSSRV
                                   ERASE
       1662
                        RMSSRV
                                   EXTEND
                        RMSSRV
                                   FLUSH
       1664
                        RMSSRV
                                   MODIFY
                        RMSSRV
                                   NXTVOL
                                                        OPEN FILE
1666
1667
1668
1669
1670
1671
1673
1674
1676
1678
1679
                        RMSSRV
                                   OPEN
                                                        REWIND FILE
                        RMSSRV
                                   REWIND
                                                        POSITION FOR TRANSFER
                        RMSSRV
                                   SPACE
                        RMSSRV
                                   TRUNCATE
                                                        :ENTER FILENAME INTO DIRECTORY :PARSE FILENAME SPECIFICATION
                        RMSSRV
                                   ENTER
                        RMSSRV
                                   PARSE
                                                        REMOVE FILENAME FROM DIRECTORY
                        RMSSRV
                                   REMOVE
                                   RENAME, NARG=4
                        RMSSRV
                                  SEARCH ; SEARCH A FILE DIRECTORY SETDDIR, NARG=3, NOSYNC=1
                        RMSSRV
                        RMSSRV
                                   SETDFPROT, REGS=<R2, R3>, NARG=2, NOSYNC=1
                        RMSSRV
                                                        SET DEFAULT FILE PROTECTION MASK
                                   SSVEXC, REGS=<>, NOSYNC=1
                        RMSSRV
       1680
1681
1682
1683
1684
                                                        GENERATE SYS SERV EXCEPTION
                                   RMSRUNDWN, NARG=2, NOSYNC=1
                        RMSSRV
                                                         PERFORM RUNDOWN ON RMS FILES
                        RMSSRV
                                   RMSRUHNDLR, NARG=5, NOSYNC=1
                                                         RMS Recovery Unit Handler
                        RMSSRV
                                  FILESCAN, NARG=3, NOSYNC=1
       1686
1687
1688
1689
1690
                                                        :Perform syntax check for file specs
                 ADD NEW RMS SERVICES IN FRONT OF THIS CODE!
                Now we add special non-vector code. Because of the CASE instruction
                used at the front of RMS, this code (and any future additional code)
```

- SYSTEM SERVICE VECTOR DEFINITIONS

16-SEP-1984 01:28:28 VAX/VMS Macro V04-00

SYSTEM SERVICE VECTOR DEFINITION

0480 1692; must be the last element of the RMS area.

0480 1693
0480 1694
0480 1695
0480 1704
0488 1705
0488 1707
0488 1707
0488 1708; NOTE: RMSVECEND MARKS THE END OF THE CURRENTLY DEFINED RMS VECTORS.
0488 1709; SSVECREG2 MARKS THE START OF THE SECOND REGION OF SYSTEM
0488 1710; SSERVICE VECTORS. THERE IS EMPTY SPACE BETWEEN THESE REGIONS
0488 1710; SERVICE VECTORS. THERE IS EMPTY SPACE BETWEEN THESE REGIONS
0488 1711; FOR FUTURE RMS VECTORS. IF NECESSARY, THIS SPACE CAN ALSO
0488 1713; (TOWARDS THE RMS VECTORS) AND ADDING NEW SYSTEM SERVICE VECTORS
0488 1713; (TOWARDS THE RMS VECTORS) AND ADDING NEW SYSTEM SERVICE VECTORS
0488 1714; BEFORE THE ALREADY DEFINED ONES. IN OTHER WORDS, THESE TWO
0488 1716; AN ASSEMBLY ERROR IS GENERATED.
0488 1717
0488 1719
0488 1717
0488 1717
0488 1717
0488 1717
0488 1717
0488 1717
0488 1717
0488 1717
0488 1717
0488 1717
0488 1717
0488 1717
0488 1717
0488 1717
0488 1717
0488 1717
0488 1717
0488 1717
0488 1717
0488 1717
0488 1717
0488 1717
0488 1717
0488 1717
0488 1717
0488 1717
0488 1717
0488 1717
0488 1717
0488 1717
0488 1717
0488 1717
0488 1717
0488 1717
0488 1717
0488 1717
0488 1717
0488 1717
0488 1717
0488 1717
0488 1717
0488 1717
0488 1717
0488 1717
0488 1717
0488 1717
0488 1717
0488 1717
0488 1717
0488 1717
0488 1717
0488 1717
0488 1717
0488 1717
0488 1717
0488 1717
0488 1717
0488 1717
0488 1717
0488 1717
0488 1717
0488 1717
0488 1717
0488 1717
0488 1718
0488 1718
0488 1718
0488 1719
0488 1719
0488 1715
0488 1715
0488 1715
0488 1715
0488 1715
0488 1715
0488 1715
0488 1715
0488 1715
0488 1715
0488 1715
0488 1715
0488 1715
0488 1715
0488 1715
0488 1715
0488 1715
0488 1715
0488 1715
0488 1715
0488 1715
0488 1715
0488 1715
0488 1715
0488 1715
0488 1715
0488 1715
0488 1715
0488 1715
0488 1715
0488 1715
0488 1715
0488 1715
0488 1715
0488 1715
0488 1715
0488 1715
0488 1715
0488 1715
0488 1715
0488 1715
0488 1715
0488 1715
0488 1715
0488 1715
0488 1715
0488 1715
0488 1

SYS

21

Page

```
.SBTTL REGION 2 OF SYS. SERV. VECTOR DEFINITIONS
 05CO
05C0
                                              Note: Service codes for exec mode services in this region are
                                             reserved by the offset defined above between RCASCTR and ECASCTR. If the ASSUME at the end of this section breaks, the offset must
05C0
05C0
05C0
05C0
05C0
05C8
                     1740
                                              be increased.
                                                                GSYSSRV ENQ, K, 11, -

<R2, R3, R4, R5, R6, R7, R8, R9, R10, R11>

GSYSSRV DEQ, K, 4, -

<R2, R3, R4, R5, R6, R7, R8, R9, R10, R11>

<R2, R3, R4, R5, R6, R7, R8, R9, R10, R11>
                                                                                                                                                                                                                       ; REGISTERS R2-R11
                     : REGISTERS R2-R11
                                                                   GCOMPSRVB ENQW,-
                                                                                                                                                                                           ENQUEUE AND WAIT
                                                                                                                                                                                          CLREF MASK ! SETEF MASK > RESERVE 3 QUADWORDS FOR VECTOR
                                                                                               <ENQ_MÁSK ! WAITFR_MASK
                                                                   GCOMPSRVE
                                                                   GSYSSRV SETSSF,K,1,-
                                                                                                                                                                                           SET SYSTEM SERVICE FILTER MASK
                                                                                                                                                                                           REGISTER R4
                                                                                                <R4>
                                                                  GSYSSRV SETSTK, K, 3, -

(R2, R3, R4)

GSYSSRV GETSYI, K, 7, -

(R2, R3, R4, R5, R6, R7, R8, R9, R10, R11); REGISTERS R2-R11

GSYSSRV IMGFIX, ALL, 0, -

(R2, R3, R4, R5)

(R2, R3, R4, R5)

(R2, R3, R4, R5)

(R2, R3, R4, R5)

(R6, R7, R8, R9, R10, R11); REGISTERS R2-R11

(R6, R6, R7, R8, R9, R10, R11); REGISTERS R2-R11

(R6, R6, R7, R8, R9, R10, R12); REGISTERS R2-R5
05F00
06C08
06C08
06C08
06C18
                                                                                                                          IMGFIX_2,-
                                                                   GCOMPSRVB
                                                                                                                                                                                           ****** TEMP *******
                                                                                               <0>
                                                                 GCOMPSRVE
GSYSSRV GETDVI, K, 8, -

(R2, R3, R4, R5, R6, R7, R8, R9, R10, R11); REGISTERS R2-R11

(R2, R3, R4, R5, R6, R7, R8, R9, R10, R11); GET DEVICE INFORMATION AND WAIT
                                                                   GCOMPSRVE
                                                                                                                                                                                           ****** TEMP *******
                                                                                                                                                                                          GET DEVICE AND VOLUME INFORMATION
                                                                                               <GETDVI_MASK ! GETJPI_SYNCH_MASK>
                                                                   GCOMPSRVE
                                                                  GCOMPSRVB GETJPIW.- ; GET JOB/

<GETJPI_MASK ! GETJPI_SYNCH_MASK>
                                                                                                                                                                                          GET JOB/PROCESS INFORMATION AND WAIT
                                                                  GCOMPSRVE GETSYIW,-
                                                                                                                                                                                          GET SYSTEM INFORMATION AND WAIT
                     1800
1809
1810
1811
1820
1821
1822
                                                                                               <GETSYI_MASK ! GETJPI_SYNCH_MASK>
                                                                GCOMPSRVE SNDJBCW.-
GCOMPSRVB SNDJBCW.-
<SNDJBC_MASK ! GETJPI_SYNCH_MASK>
                                                                                                                                                                                          SEND TO JOB CONTROLLER AND WAIT
```

```
- SYSTEM SERVICE VECTOR DEFINITIONS 16-SEP-1984 01:28:28 REGION 2 OF SYS. SERV. VECTOR DEFINITION 5-SEP-1984 03:40:37
                                                                                                                                                                                                                                         VAX/VMS Macro V04-00
[SYS.SRC]CMODSSDSP.MAR;1
                                  06A0
06A0
06B0
06B0
                                                                                                                                1875
1888
1889
1890
1891
1893
1893
1896
1898
1899
1900
                                                                                                    GCOMPSRVE
                                                                                                GSYSSRV ASCTOID, E, 3, - GRANTID, ALL, 5, - GRANTID, CHECK ROUTINE GRANT BRITTING GRANTID, ALL, 5, - GRANTID, CHECK ROUTINE GRANTID, ALL, 5, - GRANTID, CHECK ROUTINE GRANTID, ALL, 5, - GRANTID, CHECK ROUTINE GRANTID, CHECK ROUTINE GRANTING GRANTID, GRANT
                                   06B0
                                   06B8
                                   06B8
                                   06C0
06C0
06C8
06C8
                                   0600
                                   06D0
                                   0608
                                   0608
                                                       1901
1902
1903
                                  06E0
06E0
                                   06E8
                                                       1904
                                   06E8
                                   06E8
                                   06F8
                                  0700
                                                       1926
                                  0700
                                  0710
                                                     1928
1929
1930
                                   0710
00004028
                                                                                                    CJF$KCASCTR = 16424
                                                                                                                                                                                                 K,
K,
K,
K,
                                                                                                    LDBSRV
                                                                                                                                                                                                                   <R4>
                                                                                                                                CJFS, ALLJDR,
                                                                                                    LDBSRV
                                                                                                                               CJFS, ASSJNL,
                                                                                                                                                                                                                   <R4>
                                                                                                                               CJFS.
                                                                                                    LDBSRV
                                                                                                                                                    CONUIC,
                                                                                                                                                                                                                   <R4>
                                                                                                                              CJFS.
                                                       LDBSRV
                                                                                                                                                    CREJNL.
                                                                                                                                                                                                                   <R4>
                                                                                                                                CJFS,
                                                                                                    LDBSRV
                                                                                                                                                    DEALJDR,
                                                                                                                                                                                                                   <R4>
                                                                                                                                CJFS,
                                                                                                                                                   DEASJNL,
                                                                                                    LDBSRV
                                                                                                                                                                                                                  <R2,R3,R4,R5,R6,R7,R8,R9,R10,R11>
                                                                                                                                CJFS,
                                                                                                                                                   DEASJNL_INT,
                                                                                                                                                                                                 K.
                                                                                                    LDBSRV
                                                                                                                                                                                                                   <R4>
                                                                                                                                                   DELJNL,
                                                                                                    LDBSRV
                                                                                                                                CJFS.
                                                                                                                                                                                                                   <R4>
                                                                                                    LDBSRV
                                                                                                                                                    DMTJMD,
                                                                                                                                                                                                                   <R4>
                                                                                                                                                                                                 KKKKKKKKKKKKKALL,
                                                                                                                                                   DSPJNL,
                                                                                                    LDBSRV
                                                                                                                                                                                                                   <R4>
                                                                                                     LDBSRV
                                                                                                                                                    GETJNL,
                                                                                                                                                                                                                   <R4>
                                                                                                                                                    GETRUI,
                                                                                                    LDBSRV
                                                                                                                                CJFS.
                                                                                                                                                                                                                   <R4>
                                                                                                                                CJFS.
                                                                                                                                                    MODFLT,
                                                                                                    LDBSRV
                                                                                                                                                                                                                   <R4>
                                                                                                     LDBSRV
                                                                                                                                                    POSJNL.
                                                                                                                                CJFS.
                                                                                                                                                                                                                   <R4>
                                                                                                     LDBSRV
                                                                                                                                                    READJNL,
                                                                                                                                                                                                                   <R4>
                                                                                                     LDBSRV
                                                                                                                                                    RECOVER,
                                                                                                                                                                                                                   <R4>
                                                                                                                                CJFS.
                                                                                                                                                    MNTJMD,
                                                                                                     LDBSRV
                                                                                                                                                                                                                   <R4>
                                                                                                                                CJFS,
                                                                                                     LDBSRV
                                                                                                                                                    CRENWV
                                                                                                                                                                                                                   <R4>
                                                                                                                                                    CONJULF.
                                                                                                     LDBSRV
                                                                                                                                                                                                                   <R4>
                                  07A8
07B0
07B8
                                                                                                                                                    DCNJNLF,
                                                                                                     LDBSRV
                                                                                                                                                                                                                   <R4>
                                                                                                                                                   FORCEJNÍ,
FORCEJNÍW,
WRITEJNÍ,
WRITEJNÍW,
                                                                                                                                                                                                                 <R2.R3.R4.R5.R6.R7.R8.R9.R10.R11>
<R2.R3.R4.R5.R6.R7.R8.R9.R10.R11>
<R2.R3.R4.R5.R6.R7.R8.R9.R10.R11>
<R2.R3.R4.R5.R6.R7.R8.R9.R10.R11>
<R2.R3.R4.R5.R6.R7.R8.R9.R10.R11>
                                                                                                     LDBSRV
                                                                                                     LDBSRV
                                                                                                     LDBSRV
                                                                                                                                                                                                 ALL,
K,
K,
K,
                                                                                                     LDBSRV
                                                                                                                                                    DMTJMDW.
                                                                                                     LDBSRV
                                                                                                                                                                                                                   <R4>
                                                                                                                                                                                                                  <R4>, 4, 5, DMTJMD
<R4>, 4, 5, MODFLT
<R4>, 4, 5, POSJNL
                                                                                                     LDBSRV
LDBSRV
                                                                                                                                CJFS,
                                                                                                                                                    MODFLTW,
                                                                                                    LDBSRV
                                                                                                                                                    POSJNLW.
```

```
- SYSTEM SERVICE VECTOR DEFINITIONS 1
REGION 2 OF SYS. SERV. VECTOR DEFINITION
                                                                                                                                                                              (1)
                           1959
1960
1961
1963
1964
1966
1966
1970
1976
1976
1977
1978
1979
                                                 LDBSRV CJF$, READJNLW,
LDBSRV CJF$, RECOVERW,
                                                                                                        <R4>, 4, 5, READJNL
<R4>, 5, 6, RECOVER
00004010
                                                 RUF$KCASCTR = 16400
                                                                          REENTERRU,
STARTRU,
PHASE1,
PHASE2,
CANCELRU,
MARKPOINTRU,
RESETRU,
DCLRUH,
CANRUH,
RUSTATUS,
                                                              RUFS,
RUFS,
RUFS,
                                                 LDBSRV
LDBSRV
LDBSRV
                                                                                                          <R2
                                                                                                         <R2,R3,R4,R5,R6><R2,R3,R4,R5,R6><R2,R3,R4,R5,R6><R2,R3,R4,R5,R6><R2,R3,R4,R5,R6>
                                                  LDBSRV
                                                  LDBSRV
                                                               RUFS,
                                                  LDBSRV
                                                               RUFS,
                                                  LDBSRV
                                                               RUFS,
                                                               RUFS.
                                                 LDBSRV
                                                               RUFS,
                                                                                                          <R2,R3,R4,R5,R6>
<R2,R3,R4,R5,R6>
                                                 LDBSRV
                                                 LDBSRV
                                                               RUFS.
                                       End Recovery Unit consists of a two-phase commit, so we call each
                                       phase separately.
                                                 GCOMPSRVB ENDRU, <PHASE1_MASK ! PHASE2_MASK>, RUF$ ; End Recovery Unit GCOMPSRVE 2
                                                 GSYSSRV MTACCESS, K, 6, - ; Mag tape installation specific access routi <R2,R3,R4,R5,R6,R7,R8,R9,R10,R11> ; REGISTERS R2-R11
                          1994
1995
1996
1997
2003
                                       End of system service vector definitions. New system services are
                                       to be added at this point.
```

- SYSTEM SERVICE VECTOR DEFINITIONS 16-SEP-1984 01:28:28 VAX/VMS Macro V04-00 REGION 2 OF SYS. SERV. VECTOR DEFINITION 5-SEP-1984 03:40:37 [SYS.SRC]CMODSSDSP.MAR;1 0890 2269

Page 25 (1)

- SYSTEM SERVICE VECTOR DEFINITIONS 16-SEP-1984 01:28:28 VAX/VMS Macro V04-00 REGION 2 OF SYS. SERV. VECTOR DEFINITION 5-SEP-1984 03:40:37 [SYS.SRC]CMODSSDSP.MAR;1 0890 2345 .END

Page 26 (2)

| SYS\$VECTOR Symbol table | - SYSTEM SERVICE VEC | 5-SEP-19 | 84 01:28:28 VAX/VMS Macro V04-00 84 03:40:37 [SYS.SRC]CMODSSDSP.MAR;1 | Page 27 (2) |
|--|---|--|--|-------------|
| SSARGS S\$T1 CATO CAT7 CJF\$ALLJDR CJF\$ASSJNL CJF\$CONJNLF CJF\$CONJNLF CJF\$CRENWV CJF\$CRENWV CJF\$DEASJNL CJF\$DEASJNL CJF\$DEASJNL CJF\$DEASJNL CJF\$DEASJNL CJF\$DEASJNL CJF\$DEASJNL CJF\$DEASJNL CJF\$DETJNL CJF\$BOETJNL CJF\$SDETJNL CJF\$SORCEJNLW CJF\$SGETCJI CJF\$SGETCJI CJF\$SGETCJI CJF\$READJNL CJF\$ROMODFLT C | = 00000008 = 000000001 = 000000080 80000710 80000720 80000720 80000728 80000738 80000748 80000750 80000760 80000760 800007760 800007760 800007760 800007760 800007760 800007760 800007760 800007760 800007760 800007760 800007760 800007760 800007760 800007760 800007760 80000000000 8000000000 80000000000 | GETDVIS NULLARG GETJPIS ASTADR GETJPIS EFN GETJPIS ITMLST GETJPIS ITMLST GETJPIS PIDADR GETJPIS PRONAM GETLKIS ASTADR GETLKIS SEFN GETLKIS EFN GETLKIS ITMLST GETLKIS ITMLST GETLKIS ITMLST GETLKIS ITMLST GETLKIS SEFN GETLKIS ITMLST GETLKIS SEFN GETLKIS NARGS GETLKIS NARGS GETLKIS NARGS GETLKIS ASTADR GETSYIS ASTADR GETSYIS ASTADR GETSYIS SEFN GETSYIS ITMLST GETSYIS SEFN GETSYIS NODENAME LIBSWITCH QIOS ASTADR QIOS SASTADR QIOS SASTADR QIOS SASTADR QIOS SEFN QIOS PO QIOS SORRUH RUFSCANRUH RUFS | = 00000010 | |

| SYS\$VECTOR Symbol table | - SYSTEM SERVICE | VECTOR DEFINITIONS 4 | 16-SEP-1984 01:28:28 VAX/VMS Macro V04-00 5-SEP-1984 03:40:37 [SYS.SRC]CMODSSDSP.MAR;1 | Page | 28 (2) |
|--|--|--|---|------|--------|
| SNDJBCS_NARGS SNDJBCS_NULLARG SSVECREGZ SYNCHS_EFN SYNCHS_IOSB SYNCHS_NARGS SYSSADJSTK SYSSADJWSL SYSSALODC SYSSASCEFC SYSSASCEFC SYSSASCTIM SYSSASCTIM SYSSBRKTHRU SYSSBRKTHRU SYSSBRKTHRU SYSSBRKTHRU SYSSCANCEL SYSSCANCEL SYSSCANCEL SYSSCANCEL SYSSCANCEL SYSSCANCEL SYSSCANCEL SYSSCANCEC SYSCANCEC SYSSCANCEC | = 00000007 = 000000000000000000000000000000000000 | SYSSDISCONNECT SYSSDISPLAY SYSSDICEFC SYSSENQW SYSSENTER SYSSENTER SYSSERASE SYSSEXCMSG SYSSEXTEND SYSSEXPREG SYSSEXTEND SYSSFAOL SYSSFIND SYSSFAOL SYSSFIND SYSSGETOVI SYSSGE | 800003D0 G 800003D0 G 80000120 G 80000520 G 800005D0 G 800005D0 G 800003E0 G 800003E0 G 800003E8 G 80000140 G 800003E8 G 80000150 G 80000150 G 800003F0 G 800005F0 G | | |
| | | | | | 100 |

| SYS\$VECTOR Symbol table | - SYSTEM SERVICE | VECTOR DEFINITIONS 4 | 16-SEP-1984 01:28:28 VAX/VMS Macro V04-00 5-SEP-1984 03:40:37 [SYS.SRC]CMODSSDSP.MAR;1 | Page | 29 |
|--|---|---|---|------|-----|
| SYSSPUTMSG SYSSQIOW SYSSREAD SYSSREADEF SYSSREADEF SYSSRENAME SYSSREVOKID SYSSREVOKID SYSSREVOKID SYSSREVINDWN SYSSSETIME SYSSETIME SYSSSETEF SYSSSETEF SYSSSETEF SYSSSETEF SYSSSETEF SYSSSETER SYSSSETEF SYSSSETEF SYSSSETER SYSSETER SYSSSETER SYSSETER | 800001C8 800001000 800000390 800000398 800000438 800000440 800000410 800000410 800000470 8000001F0 8000001F0 8000001F0 800000208 800000218 800000228 800000228 800000238 800000238 800000240 800000238 800000240 | SYS\$WFLAND SYS\$WFLOR SYS\$W | | | (2) |
| YSSUPDATE YSSUPDSEC YSSUPDSECW YSSWAIT YSSWAITER | 80000130 G 80000180 G 800003A8 G | | | | |

| SYS\$VECTOR Psect synopsis | - SYSTEM | SERVICE VE | CTOR DEFIN | ITIONS 4 | 16- | SEP-19 | 984 01 984 03 | :28:28 :40:37 | VAX | VMS M | acro V CMODSS | 04-00 DSP.MA | R;1 | Page | 30 |
|--|---|--|---|--|-------------------|-------------------|-------------------|------------------|-------------------------|---------------------|------------------|---------------------|----------------------------|----------------------|----|
| | | 1.5 | sect synop | is | | | | | | | | | | | |
| ABS . BABS\$ B\$\$0000 | Allocatio 00000000 00000000 80000890 | 0.} { 0.} | PSECT No. 00 (0.) 01 (1.) 02 (2.) | NOPIC NOPIC NOPIC | USR USR USR | CON CON CON | ABS ABS ABS | LCL LCL | NOSHR NOSHR NOSHR | NOEXE EXE EXE | NORD RD RD | NOWRT WRT WRT | NOVE C NOVE C NOVE C | BYTE BYTE QUAD | |
| | | Perf | ormance in | icators | 1 | | | | | | | | | | |
| Chase Initialization Command processing Cass 1 Cymbol table sort Cass 2 Cymbol table output Cross-reference output | 30 111 592 0 206 35 3 0 979 | PU Time 00:00:00.07 00:00:00.62 00:00:02.02 00:00:05.66 00:00:00.26 00:00:00.26 00:00:29.22 | 00.01. | 01.21 05.49 10.23 06.40 20.02 00.80 00.03 00.03 | termed i | ate co | ode. | symbol | s. | | | | | | |
| 3 pages of virtual memory | y were used to d | + | acros. | | + | | | | | | | | | | |
| lacas I (bases) anno | | + | | | | | | | | | | | | | |
| \$255\$DUA28:[SYS.OBJ]LIB.M \$255\$DUA28:[SYSLIB]STARLM OTALS (all libraries) | MLB;1 ET.MLB;2 | macros | defined 6 18 24 | | | | | | | | | | | | |
| 20/ 5575 | define 24 macr | os. | | | | | | | | | | | | | |
| 204 GETS were required to | o deline E4 maci | | | | | | | | | | | | | | |

SYN CEREBEN SERVICE CONTROL OF SYNTAX SERVIC

0389 AH-BT13A-SE

DIGITAL EQUIPMENT CORPORATION CONFIDENTIAL AND PROPRIETARY

